

SCREENING SITE INSPECTION **WORK PLAN**
FOR

COMERCO INC. OLYMPIC STAIN DIVISION
BATAVIA, ILLINOIS

U.S. EPA ID: ILD085224186

SS ID: NONE

TDD: F05-8711-048

PAN: FILO129SA

US EPA RECORDS CENTER REGION 5



551235

SEPTEMBER 15, 1988

Elements of this Screening Site Inspection Work Plan are considered confidential and pre-decisional in nature. Material and information contained within this report may not be released without the approval of the United States Environmental Protection Agency Region V Pre-Remedial Unit.



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

230 SOUTH DEARBORN ST.

CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

5HR-11

Mr. Thomas Crause
Hazardous Substances Planning Unit
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

Site Name: COMERCO INC OLYMPIC STAIN DIV

Location: BATAVIA, IL

Identification No: ILD085224 R6

Date: 9/15/88

Dear Mr. Crause:

Attached is a copy of the site inspection work plan which has been prepared for the site listed above. This document is considered to be draft and subject to changes and modifications based on actual conditions which may be encountered at the site.

Because this is considered to be a draft document, it should be for official use only and should not be distributed outside of your agency without prior notification and approval of the U.S. Environmental Protection Agency.

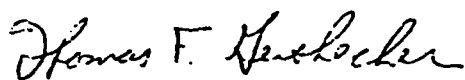
The document also contains a preliminary estimate of the Hazard Ranking System (HRS) score for the site and a projected score based on specific assumptions as addressed in the work plan. This information is considered predecisional. Therefore, it should not be released. Your field and district staff especially should be made aware of the predecisional nature of this score, the legal implications of releasing it relative to the National Priorities List (NPL) candidacy process, and therefore the need not to release any score. If you have any questions concerning release of this information, please contact Ms. Jeanne Griffin, of my staff, at (312) 886-3007.

If you have any comments on the work plan itself, please contact Mr. Charles Castle, of my staff, at (312) 886-5892, within eight calendar days. If we do not receive any comments written or verbal from you, then we will assume that the work plan is acceptable.

Please note that site inspections are carried out under CERCLA to determine if a site will make the NPL. Thus, extra sampling or other activities that serve only a State purpose should not be requested. We welcome suggestions based on the knowledge of you and your staff that will make for a better site inspection for NPL candidacy purposes.

Please talk with Mr. Castle as early within the eight-day period as possible in order that your suggestions can be evaluated and modifications made.

Sincerely yours,

A handwritten signature in cursive script, reading "Thomas F. Geishecker".

Thomas F. Geishecker, Chief
Program Support Section

Enclosure

WORK PLAN **1**

SITE MAPS **2**

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WORK PLAN

SITE INSPECTION WORK PLAN

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this document, this document and its attachments are not to be released without prior approval of the United States Environmental Protection Agency (U.S. EPA).

This site inspection work plan (WP) has been prepared by Ecology and Environment, Inc., or its subcontractor, C. C. Johnson and Malhotra, P.C., under the field investigation team (FIT) contract with U.S. EPA (No. 68-01-7347).

The objectives of this WP are to:

- o Prepare a preliminary Hazard Ranking System (HRS) score using HRS 1 (40 CFR 300, July 16, 1982) criteria based on existing file information (Part C of WP);
- o Prepare projected HRS 1 scores based on experience and professional judgement (Part C of WP);
- o Provide HRS factor values using the revised HRS 2 (Federal Register proposed date, April 1988) criteria (Part D of WP);
- o Identify HRS 1 score data gaps (Part F of WP); and
- o Propose site inspection activities to satisfy the HRS 1 score data gaps; technical approach and estimated LOE are provided (Parts F and J, respectively).

Unless otherwise stated, QA/QC protocol for site inspection activities are documented in the Quality Assurance Project Plan Region V FIT Conducted Site Inspections - May 1, 1987.

Note: This Work Plan has been prepared following the HRS model currently in use. Revisions will be made to bring the WP in agreement with the revised HRS requirements after promulgation in October 1988.

A. GENERAL INFORMATION

CERCLIS SITE NAME: COMERCO INC. OLYMPIC STAIN DIVISION
ALSO KNOWN AS: OLYMPIC STAIN - CLOROX DIVISION
FORMERLY KNOWN AS: NONE
ADDRESS: 1020 OLYMPIC DR.
CITY: BATAVIA
STATE: ILLINOIS
COUNTY: KANE
ZIP CODE: 60510
U.S. EPA ID: ILD085274186
SSID: NONE
TDD: F05-B711-048
PAN: FIL0129SA

FIT USE ONLY

WORK PLAN TYPE: ☒ SCREENING SITE INSPECTION (SSI) WORK PLAN

OTHER: _____

PREPARED BY: BILL SCHAEFER (FIT) DATE: 7-21-88

REVIEWED BY: Frank W. Cardona (FIT) DATE: 7-25-88

APPROVED BY: M. Martin (FIT) DATE: 9/15/88

U.S. EPA USE ONLY

REVIEWED BY: _____ (U.S. EPA) DATE: _____

___ WORK PLAN APPROVED. Recommend issuance of TDD to implement the Work Plan.

___ WORK PLAN APPROVED. No Further Remedial Action Planned (NFRAP).

___ WORK PLAN REJECTED.

COMMENTS: _____

B. SITE INFORMATION

This section of the VP presents current and historic information pertaining to the site, including: site operations, storage/disposal methods, site property area, site status, owners and operators, permit information, and response/enforcement activities. A site location map is shown on Figure 1, located in Section 2.

1. Site Operations (past and present; check all that apply):

<input checked="" type="checkbox"/> Above ground storage	<input type="checkbox"/> Mining site
<input type="checkbox"/> Below ground storage	<input type="checkbox"/> Open dump
<input type="checkbox"/> Chemical manufacturer	<input type="checkbox"/> Ore processor
<input type="checkbox"/> Drum recycler	<input type="checkbox"/> Physical/chemical treatment
<input type="checkbox"/> Electroplater	<input type="checkbox"/> Recycler/reclaimer
<input type="checkbox"/> Foundry	<input type="checkbox"/> Surface impoundment
<input type="checkbox"/> Incinerator	<input type="checkbox"/> Underground injection
<input type="checkbox"/> Landfarm	<input type="checkbox"/> Well field
<input type="checkbox"/> Landfill	<input type="checkbox"/> Wood preserver
<input type="checkbox"/> Midnight dump	<input checked="" type="checkbox"/> Other: <u>paint and stain</u>
	<u>production</u>

References: 3, 9, _____, _____, _____

2. Storage/Disposal Methods (past and present; check all that apply):

	Waste Quantity (amount/units of measure)
<input checked="" type="checkbox"/> Drums, above ground	<u>2540 drums (Est.)</u>
<input type="checkbox"/> Landfarm	_____
<input type="checkbox"/> Landfill	_____
<input type="checkbox"/> Open dump	_____
<input type="checkbox"/> Piles	_____
<input type="checkbox"/> Surface impoundment	_____
<input checked="" type="checkbox"/> Tank, above ground	<u>Unknown</u>
<input type="checkbox"/> Tank, below ground	_____
<input type="checkbox"/> Other: _____	_____

References: 3, _____, _____, _____, _____

3. Site Property Area: 1.84 (acres)

References: 3, _____, _____, _____, _____

4. Site Status: ☒ Active ☐ Inactive

References: 3, _____, _____, _____, _____

5. Owner/Operator History

Current Owner

Name: Olympic Stain - Clorox Division

Address: 1020 Olympic Dr.

City, State, Zip Code: _____

Batavia, Illinois 60510

Years of Ownership: 7 (1981-Present)

Current Operator

Name: Same

Address: _____

City, State, Zip Code: _____

Type of Operation: Paint Manufacturer

Years of Operation: _____

Previous owners

(list most recent first)

Name: Comarco Inc. Olympic Stain Div.

Address: 1020 Olympic Dr.

City, State, Zip Code: _____

Batavia, Illinois 60510

Years of Ownership: 4 (1977-1981)

Previous operators

(list most recent first)

Name: Same

Address: _____

City, State, Zip Code: _____

Type of Operation: _____

Years of Operation: _____

Name: _____

Address: _____

City, State, Zip Code: _____

Years of Ownership: _____

Name: _____

Address: _____

City, State, Zip Code: _____

Type of Operation: _____

Years of Operation: _____

References: 3, _____, _____, _____, _____

6. Permit Information

Effective Date

Expiration Date

☒ NPDES to Fox River

☐ UIC

☐ AIR

☐ RCRA, ☐ PART A ☐ PART B

☐ SPCC PLAN

☐ STATE (specify): _____

☐ LOCAL (specify): _____

☒ OTHER (specify): 103c

☐ NONE

10-14-77

10-31-82

5-13-81

References: 11, _____, _____, _____, _____

7. Response Activities (previous and current site remediation; check all that apply): N/A

<input type="checkbox"/> Water supply closed	<input type="checkbox"/> Cutoff trenches/sump
<input type="checkbox"/> Temporary water supply provided	<input type="checkbox"/> Subsurface cutoff wall
<input type="checkbox"/> Permanent water supply provided	<input type="checkbox"/> Barrier wall constructed
<input type="checkbox"/> Spilled material removed	<input type="checkbox"/> Capping/covering
<input type="checkbox"/> Contaminated soil removed	<input type="checkbox"/> Bulk tankage repaired
<input type="checkbox"/> Waste repackaged	<input type="checkbox"/> Grout curtain constructed
<input type="checkbox"/> Waste disposed elsewhere	<input type="checkbox"/> Bottom sealed
<input type="checkbox"/> On-site burial	<input type="checkbox"/> Gas control
<input type="checkbox"/> In situ treatment	<input type="checkbox"/> Fire control
<input type="checkbox"/> Encapsulation	<input type="checkbox"/> Leachate treatment
<input type="checkbox"/> Emergency waste treatment	<input type="checkbox"/> Area evacuated
<input type="checkbox"/> Cutoff walls	<input type="checkbox"/> Access to site restricted
<input type="checkbox"/> Emergency diking/surface water diversion	<input type="checkbox"/> Population relocated

Other remedial and enforcement activities: N/A

References: _____, _____, _____, _____, _____

8. Additional Site Information: ① A RCRA Inspection was completed at this site on 12-4-81. The facility was reported as very clean and organized. ② In 1981 the facility changed ownership from Comerco Inc. to Clorox Inc. ③ Olympic Stain's paint sludge waste is shipped to Sheffield / U.S. Ecology and their solvent waste is sent to Latex/Radco. ④ The deputy chief of the City of Batavia Fire Dept. states there is no threat to the community or environment due to fire or explosion hazard at the site. He is also impressed with the sites cleanliness and efficiency.

References: 2, 9, 10, 11, _____

9. Documented and Alleged Target Compounds

Documented and alleged target compounds are compiled in Table 1. The documented target compounds are supported by analytical data from previous sampling projects. The alleged target compounds are based on the history of site operations and professional judgement. Documented and alleged target compound locations are shown on Figure 2, located in Section 2.

8. Additional Site Information continued

⑤ Groundwater flow is assumed to be toward the SW.

(Ref # 10) ⑥ There are 11 municipal wells serving the cities of St. Charles, Geneva, Batavia and West Chicago within a 4 mile radius of the site. These municipal wells range from 1100 to 2300 feet deep and are open to the Cambrian - Ordovician aquifer. This aquifer is not the one of concern for this site because of the depth of the wells along with the presence of two shale confining layers, each 35-100 feet thick.

(Ref # 1) ⑦ The aquifer of concern at this site is the Silurian system consisting mainly of dolomite 50-150 feet below ground level.

⑧ Olympic Stain held a NPDES permit to discharge non-contact cooling water into the Fox River from 1977-1982. It is assumed that this discharging of cooling water ceased in 1982 because the site does not currently possess a NPDES permit. If the exact outfall location at the Fox River can be determined during the interview with the facility manager, 3 sediment samples will be collected. See Fig. 3b for approximate sampling locations.

C. PRELIMINARY/PROJECTED HRS SCORES

The purpose of this section is to:

- o Prepare a preliminary HRS 1 score based on existing file information; and
- o Prepare projected HRS 1 scores based on experience and professional judgement.

PRELIMINARY HRS SCORE (this score is based on existing file information that was obtained prior to the screening site inspection):

$$S_H = \underline{0.00} \quad S_{FE} = \underline{\quad\quad\quad} \quad S_{DC} = \underline{0}$$

PROJECTED HRS SCORE FOR A SCREENING SITE INSPECTION (this score is based on the expected acquisition of information from the screening site inspection):

$$S_H = \underline{17.34} \quad S_{FE} = \underline{\quad\quad\quad} \quad S_{DC} = \underline{50.00}$$

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (this score is based on the expected acquisition of information from the Listing Site Inspection):

$$S_H = \underline{27.84} \quad S_{FE} = \underline{\quad\quad\quad} \quad S_{DC} = \underline{50.00}$$

HRS 1 score worksheets are located in Section 3.

D. HRS 2 FACTOR VALUES

The HRS 2 factor values were computed using HRS 2 (Federal Register proposed date, April 1988) criteria. The HRS 2 factor value criteria were developed to reflect anticipated key HRS 2 scoring issues. The HRS 2 factor values have been calculated using available file information.

<u>Factor</u>	<u>Factor Score</u>	<u>Observed</u> <u>Human Exposure</u> (X)
Vaste Characteristics	<u>30.0</u> (100)	
Air Pathway	<u>7.5</u> (100)	
Groundwater Pathway	<u>29.1</u> (100)	<i>none documented</i>
Surface Water Pathway	<u>10.0</u> (100)	
On-site Pathway	<u>70.0</u> (100)	
TOTAL HRS 2 FACTOR VALUE	<u>146.6</u> (500)	

E. WORK SUMMARY

Based on the preliminary and projected HRS scores, a site inspection will be performed.

The objectives of the site inspection are to:

- o Provide information to satisfy HRS data gaps;
- o Develop the information base needed to, permit U.S. EPA to evaluate the need for future site activities; including: immediate removal measures, additional investigation, or no further action; and
- o Characterize hazardous substances, pollutant dispersal pathways, types of receptors, facility management practices, and potentially responsible parties.

Specific tasks to be conducted during the site inspection are (check all that apply):

- ☒ Interview site owner(s)/representative(s)
- ☒ Take photographs of site and surrounding areas
- ☒ Screen site with safety instrumentation (i.e., HNU, OVA, O₂ meter, explosimeter, radiation detector, cyanide detector)
- ☒ Collect environmental samples
- ☒ Assess the need for Immediate Removal Actions
- ☐ FASP*
- ☐ Soil gas monitoring*
- ☐ Well point installation*
- ☐ Geophysics*: _____ (Specify)
- ☐ OTHER*: _____
- _____
- _____
- _____
- _____

* Rationale for these activities and their impact on HRS data gaps:

F. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

1. A) HRS data gap(s): Waste Characteristics
- B) Sampling proposed to satisfy HRS data gap(s):
✓ Soil Sediment GW SW Air Waste
- C) Sampling procedures (number and types of samples; equipment; methodology): Eight shallow soil samples, including one to be used as a potential background sample, will be collected. The exact sampling locations will be determined once a visual inspection of the site is made. All samples (Soil, Sed, GW) will be packaged and shipped as per standard EPA protocol. Shallows will be collected with a garden trowel, deeps with a post hole digger.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3a, in Section 2.

2. A) HRS data gap(s): observed release to groundwater
- B) Sampling proposed to satisfy HRS data gap(s):
 Soil Sediment ✓ GW SW Air Waste
- C) Sampling procedures (number and types of samples; equipment; methodology): Three residential well samples will be collected. One will be an upgradient potential background sample. All samples will be collected from taps after running the water for 15 minutes. Also a duplicate residential well sample and distilled water field blank will be analyzed.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3b, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

F. PROPOSED SAMPLE PLAN (Continued)

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

3 A) HRS data gap(s): observed release to surface water

B) Sampling proposed to satisfy HRS data gap(s):

Soil ☒ Sediment GV SV Air Waste

C) Sampling procedures (number and types of samples; equipment; methodology): Olympic Stain discharged non-contact cooling water into the Fox River from 1977-1982. If the location of the outfall can be determined, 3 sediment samples will be collected. One will be at the point where the outfall enters the Fox River, one will be downstream from this point, and the third will be an upgradient potential background sample. No actual Surface water samples will be taken.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented on Figure 3b, in Section 2.

4 A) HRS data gap(s): observed release to the atmosphere/ possibility of fire and/or explosion hazard.

B) Sampling proposed to satisfy HRS data gap(s):

Soil Sediment GV SV Air Waste

C) Sampling procedures (number and types of samples; equipment; methodology): These data gaps will not be evaluated during the SSI. This decision is based on TEPA and USEPA file information and a discussion with the deputy chief of the City of Batavia Fire Department. If conditions have changed, these areas will be addressed during the LSI.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

LOCATION	MATRIX (✓)							RATIONALE FOR DETERMINING SAMPLE LOCATION	PARAMETERS ¹					
	SOIL	SED	GW	SW	AIR	WSTE	OTHR		A/B/N	Pest/ PCB	VOA	METAL	CN ⁻	OTHER
S1	✓							waste characteristics	✓	✓	✓	✓	✓	
S2	✓							waste characteristics	✓	✓	✓	✓	✓	
S3	✓							waste characteristics	✓	✓	✓	✓	✓	
S4	✓							waste characteristics	✓	✓	✓	✓	✓	
S5	✓							waste characteristics	✓	✓	✓	✓	✓	
S6	✓							waste characteristics	✓	✓	✓	✓	✓	
S7	✓							waste characteristics	✓	✓	✓	✓	✓	
S8	✓							Potential background	✓	✓	✓	✓	✓	
S9		✓						Contamination of surface water	✓	✓	✓	✓	✓	
S10		✓						Contamination of surface water	✓	✓	✓	✓	✓	
S11		✓						Potential background	✓	✓	✓	✓	✓	
GW1			✓					Contamination of groundwater	✓	✓	✓	✓	✓	
GW2			✓					contamination of groundwater	✓	✓	✓	✓	✓	
GW3			✓					potential background	✓	✓	✓	✓	✓	
Duplicate			✓					duplicate of a residential well sample	✓	✓	✓	✓	✓	
Field Blank							✓	distilled water field blank	✓	✓	✓	✓	✓	
TOTALS	8	3	4	0	0	0	1							

¹Target Compound List Attached

Table 2
PROPOSED SAMPLE DESCRIPTIONS
 (INCLUDING ALL LABORATORY BLANKS AND DUPLICATES)

G. COMMENTS

None

H. HEALTH AND SAFETY

Proposed E & E Health and Safety protocol to be followed during site inspection.

1. Anticipated level of protection: A B C ✓ D

2. Level of protection modifications: Will enter site in level D
with a possible upgrade to level C if monitoring
equipment detects an increased hazard.

3. Work limitations (time of day, etc.): Work will be limited to
daylight hours only. Monitor team members for heat
or cold stress and observe the buddy system.

I. TYPE OF DELIVERABLE

Proposed report format to be submitted to U.S. EPA.

1. ✓ SSI Report including U.S. EPA 2070-13 Form
2. Letter Report

SUBTASK CODE		SUBTASK																				
		General Non-Specific	File Search/Review	Work Plan	Safety Plan	QAPP	Mobilization/Demobilization	Travel	Non-Sampling Field Work	Sample Management	Field Sampling	Screening/Analytical	Subcontract	Meteorologic/Air Sampling Studies	Geophysical Work	Hydrogeological Work	Data Processing/Modeling	Data Validation	Draft Final Deliverable	Internal QA Review	Final Deliverable	Respond To Comments
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
TEAM LEADER	12	12		8		4	4	8		16								60		20	8	152
SAFETY OFFICER						4	4	8		16												32
SAMPLER							4		20													24
TEAM MEMBER						4	4	8		16												32
TEAM MEMBER																						
Admin.	2								4													6
Edit/Publ.																		15		5		20
QA				8													6		45			59
TOTALS FOR PROJECT	14	12		16		12	16	24	24	48							6	75	45	25	8	325

J. ESTIMATED LOE HOURS

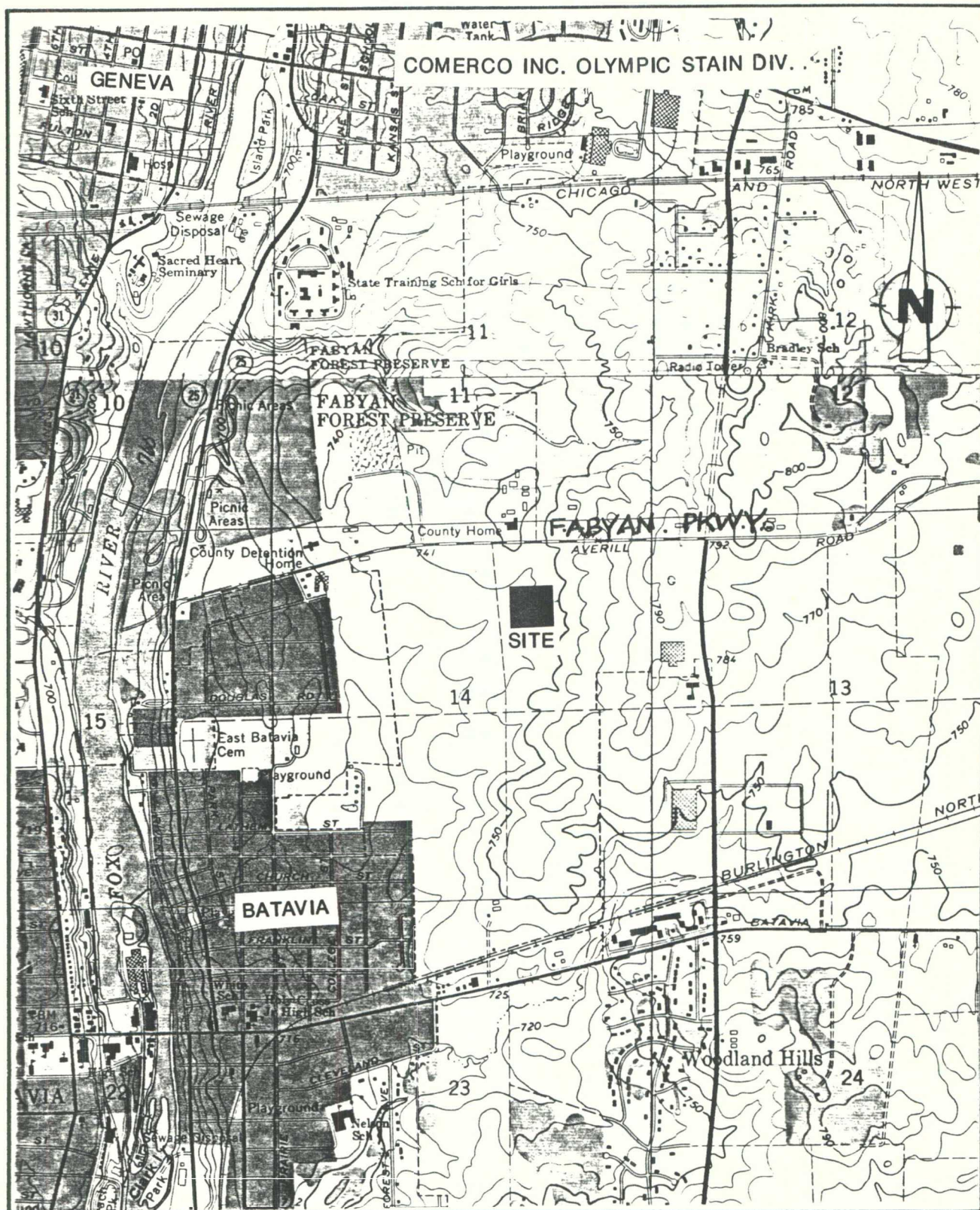
SUMMARY OF PROJECTED HOURS NEEDED TO IMPLEMENT
SITE INSPECTION AND COMPLETE SITE INSPECTION REPORT.

SITE MAPS

SITE MAPS

1. SITE LOCATION MAP (TOPO)
2. DOCUMENTED/ALLEGED
TARGET COMPOUND MAP
3. PROPOSED SAMPLE
LOCATION MAP

ecology and environment, inc. <small>111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312/463-9418</small>	
TITLE	FIGURE #
SITE	SCALE
CITY	STATE
SOURCE	P.A.N.
	DATE
	REVISED



SOURCE: Ecology and Environment, Inc., 1988; BASE MAP: USGS Aurora North, IL Quadrangle, 7.5 Minute Series, 1964; Geneva, IL Quadrangle, 7.5 Minute Series, 1964.

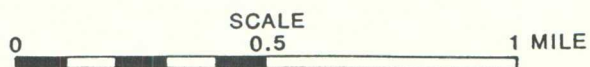
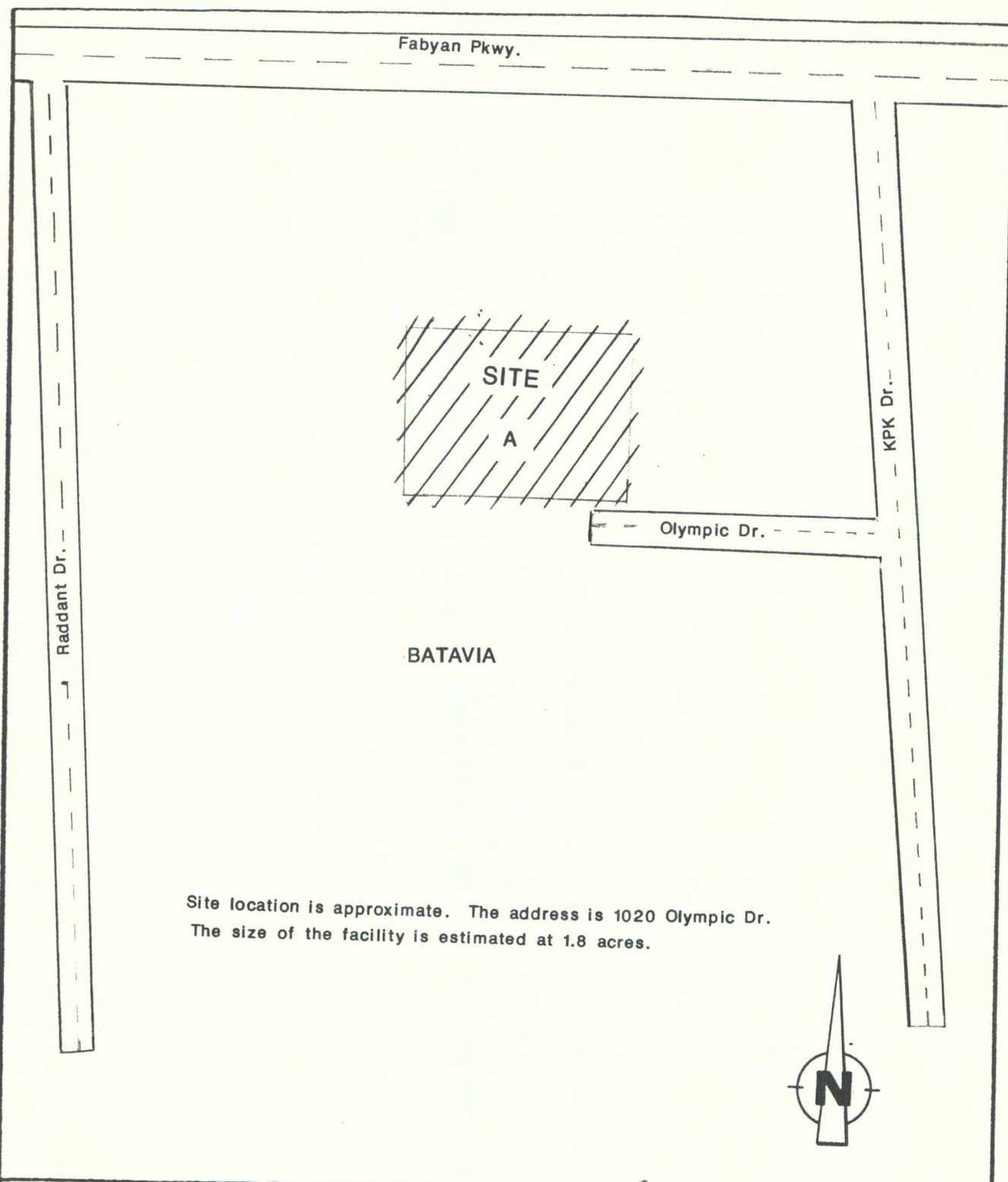


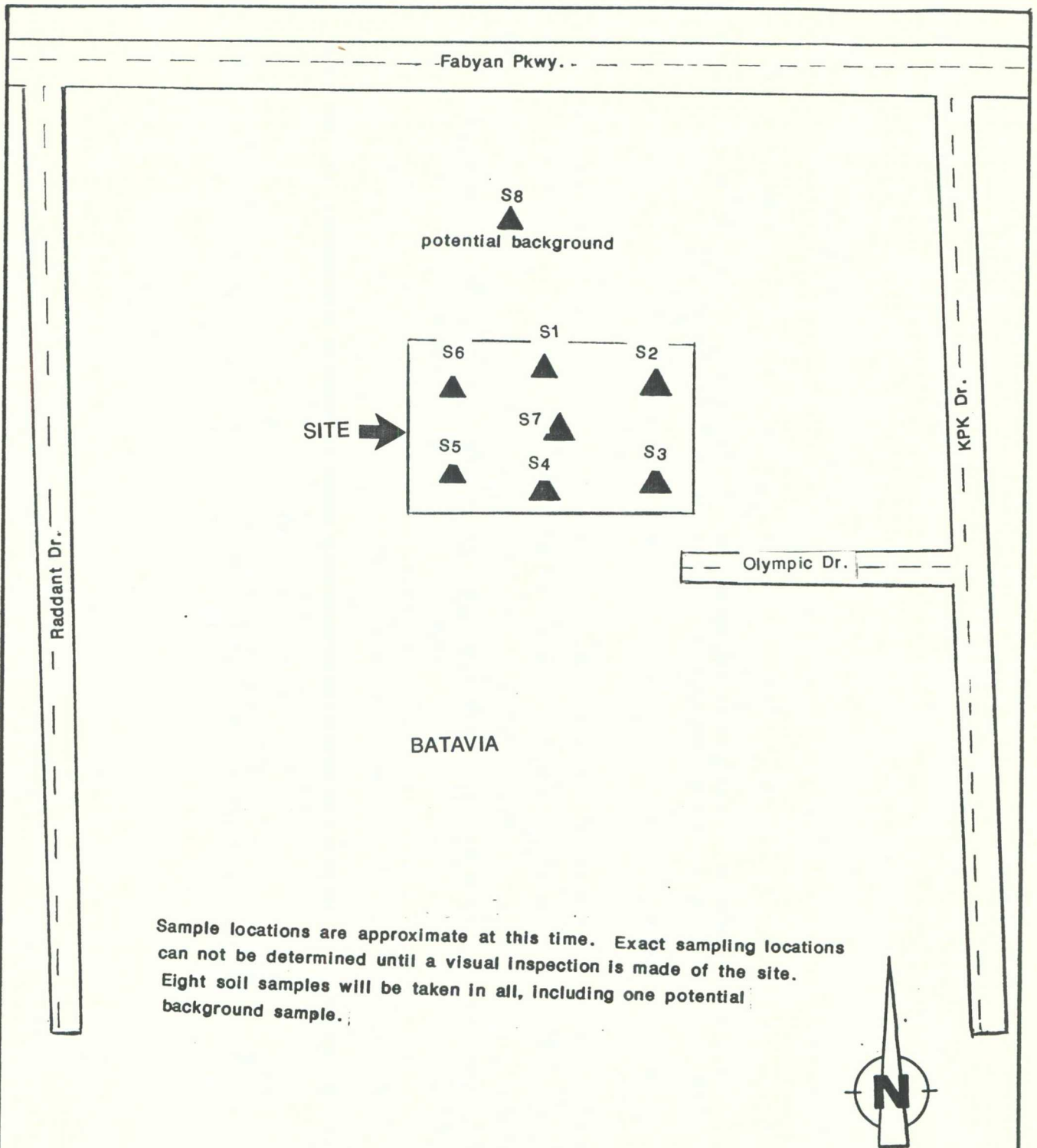


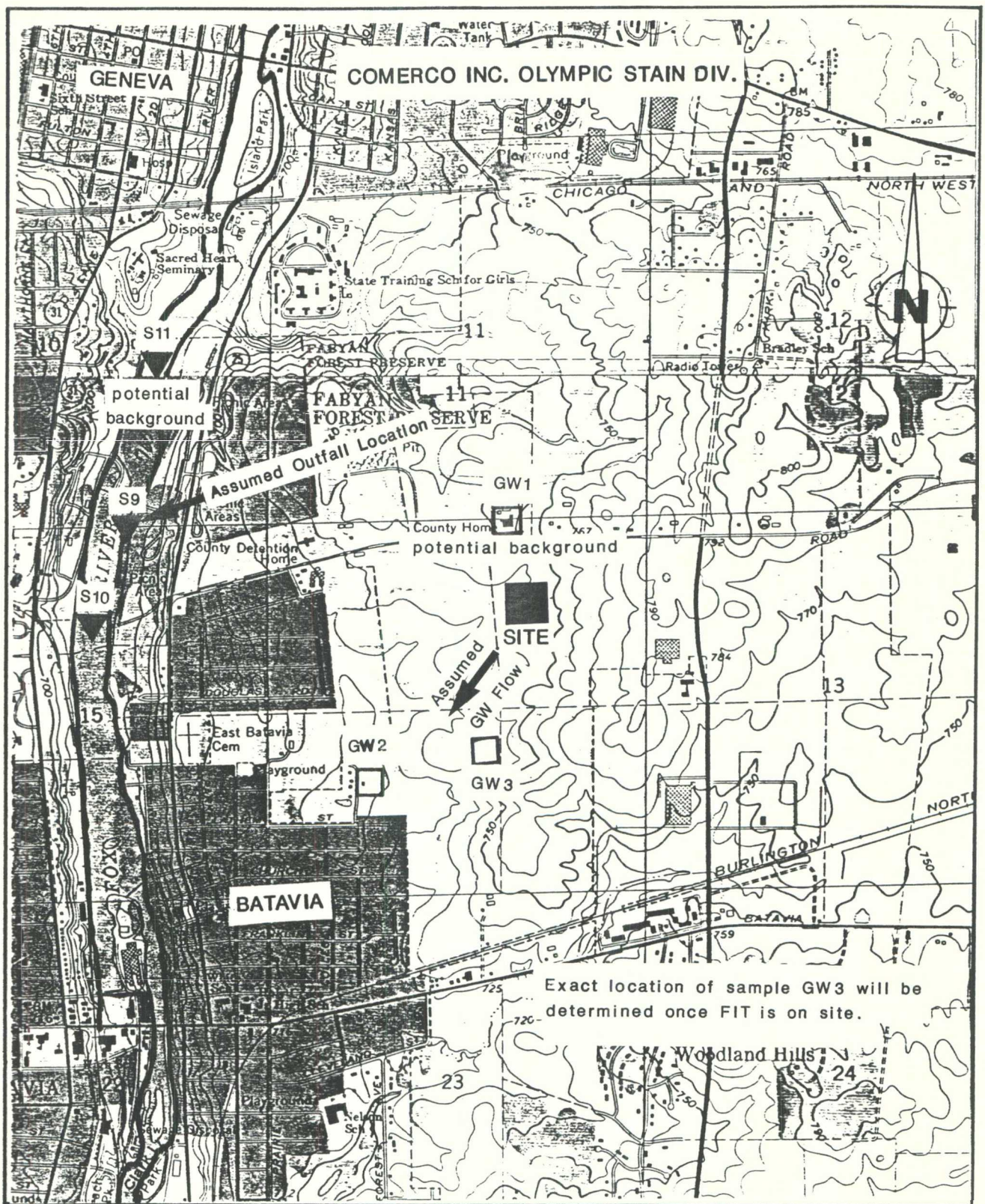
FIGURE 1 SITE LOCATION MAP



LEGEND  DOCUMENTED AREA OF CONTAMINATION  ALLEGED AREA OF CONTAMINATION (A) LETTERED ITEMS CORRESPOND TO TABLE 1			ecology and environment, inc. 111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-463-8415	
TITLE		DOCUMENTED/ALLEGED TARGET COMPOUND MAP		FIGURE # 2
SITE		COMERCO INC. OLYMPIC STAIN DIV.		SCALE NOT TO SCALE
CITY		BATAVIA	STATE	P.A.N.
			ILLINOIS	FIL0129SA
SOURCE		ILLINOIS BELL DIRECTORY		DATE 7-20-88
				REVISED



<p>LEGEND</p> <p>▲ soil sample</p>	<p>ecology and environment, inc.</p> <p>111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL 312-663-9415</p>	
	<p>TITLE</p> <p>PROPOSED SAMPLE LOCATION MAP</p>	<p>FIGURE #</p> <p>3a</p>
	<p>SITE</p> <p>COMERCO INC. OLYMPIC STAIN DIV.</p>	<p>SCALE</p> <p>NOT TO SCALE</p>
	<p>CITY</p> <p>BATAVIA</p>	<p>STATE</p> <p>ILLINOIS</p>
	<p>SOURCE</p> <p>ILLINOIS BELL DIRECTORY</p>	<p>P.A.N.</p> <p>FIL0129SA</p>
		<p>DATE 7-20-88</p> <p>REVISED</p>



SOURCE: Ecology and Environment, Inc., 1988; BASE MAP: USGS Aurora North, IL Quadrangle, 7.5 Minute Series, 1964; Geneva, IL Quadrangle, 7.5 Minute Series, 1964.

- LEGEND
- groundwater sample
(residential well)
- ▼ sediment sample

SCALE

0 0.5 1 MILE

FIGURE 3b PROPOSED SAMPLE LOCATION MAP

HRS WORKSHEETS

**Hazard Ranking System 1:
Score Worksheets:**

**PRELIMINARY AND PROJECTED
HAZARD RANKING SYSTEM
SCORE WORKSHEETS**

Site Name: COMERCO INC. OLYMPIC STAIN DIV. (Cerdis Name)

NONE (AKA)

Address: 1020 OLYMPIC DRIVE

City/County/State/Zip BATAVIA/KANE/ILLINOIS/60510

Cerdis ID #: ILD085224186

SSID NONE

Prepared by BILL SCHAEFER E&E

Date 7-21-88

Reviewed by M. Martin E&E

Date 9/15/88

TDD: F05-B711-048

PAN FIL0129SA

Type of Document

PA

PA Reassessment

WP-SSI ✓

WP-LSI

PRELIMINARY HRS SCORE

$S_M =$ 0.00

$S_{FE} =$ —

$S_{DC} =$ 0.00

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

$S_M =$ 17.34

$S_{FE} =$ —

$S_{DC} =$ 50.00

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

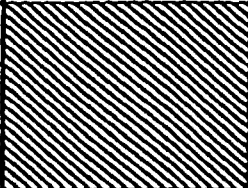
$S_M =$ 27.84

$S_{FE} =$ —

$S_{DC} =$ 50.00

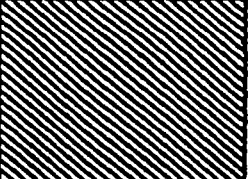
PRELIMINARY HRS SCORE

(THIS SCORE IS BASED ON EXISTING FILE INFORMATION THAT WAS OBTAINED PRIOR TO THE SCREENING SITE INSPECTION.)

	S	S'
Groundwater Route Score (S_{gw} -)	0	0
Surface Water Route Score (S_{sw} -)	0	0
Air Route Score (S_A -)	—	—
$S_{gw}^2 + S_{sw}^2 + S_A^2$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2}$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2} / 1.73 - S_M$		0

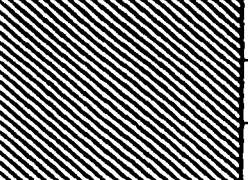
PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSD)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE SCREENING SITE INSPECTION.)

	S	S'
Groundwater Route Score (S_{gw} -)	28.26	798.63
Surface Water Route Score (S_{sw} -)	10.07	101.40
Air Route Score (S_A -)	—	—
$S_{gw}^2 + S_{sw}^2 + S_A^2$		900.03
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2}$		30.00
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2} / 1.73 - S_M$		17.34

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE LISTING SITE INSPECTION.)

	S	S'
Groundwater Route Score (S_{gw} -)	47.10	2218.41
Surface Water Route Score (S_{sw} -)	10.07	101.40
Air Route Score (S_A -)	—	—
$S_{gw}^2 + S_{sw}^2 + S_A^2$		2319.81
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2}$		48.16
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_A^2} / 1.73 - S_M$		27.84

GROUNDWATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET						
(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #	
1 Observed Release	0 45	x1		none documented		
If Observed Release scores 45 proceed to line 4						
If Observed Release scores 0 proceed to line 2						
2 Route Characteristics				Aquifer Description:		
				Silurian Dolomite	1	
Depth to Aquifer of concern	0 1 2 3	x2	4	51 ft.	1	
Net Precipitation	0 1 2 3	x1	1	Precip 33.6" Evap 29.5"	4	
Permeability of the Unsaturated Zone	0 1 2 3	x1	1	10 ⁻⁷ cm/sec	1	
Physical State	0 1 2 3	x1	3	liquid	3	
Total Route Char. Score			9			
3 Containment	0 1 2 3	x1	0	unknown		
4 Waste Characteristics						
Persistence	0 1 2 3					
Toxicity	0 1 2 3	x1	0	unknown		
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1	0	unknown		
Total Waste Char. Score			0			
5 Targets						
Groundwater Use	0 1 2 3	x3	9	drinking water	1	
Distance to Nearest Well	0 1 2 3 4					
Population Served	0 1 2 3 4 5	x1	16	Pop ~ 675	6	
Total Targets Score			25			
6 If line 1 is 45, multiply 1 x 4 x 3			0			
If line 1 is 0, multiply 2 x 3 x 4 x 5						
7 Divide line 6 by 57,330 and multiply by 100			S _{gw} = 0			

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)					
(This score is based on the expected acquisition of information from the Screening Site Inspection.)					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	<u>0</u> 45	x1		no monitoring wells on site	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description:	
				Silurian Dolomite	1
Depth to Aquifer of concern	0 1 <u>2</u> 3	x2	4	51 ft.	1
Net Precipitation	0 <u>1</u> 2 3	x1	1	Precip 33.6" Evap 29.5"	4
Permeability of the Unsaturated Zone	0 <u>1</u> 2 3	x1	1	10 ⁻⁷ cm/sec	1
Physical State	0 1 2 <u>3</u>	x1	3	liquid	3
Total Route Char. Score			9		
3 Containment	0 1 2 <u>3</u>	x1	3	assume leaky drums no liner	3
4 Waste Characteristics					
Persistence	0 1 2 <u>3</u>			lead, cadmium	
Toxicity	0 0 0 0 0 1 3 6 9 12 2 6 9 12 15 <u>3</u> 9 12 15 18	x1	18	toluene xylene assumed	8,3
Haz. Waste Quantity	0 1 2 3 4 5 <u>6</u> 7 8	x1	6	2540 drums	3
Total Waste Char. Score			24		
5 Targets					
Groundwater Use	0 1 2 <u>3</u>	x3	9	drinking water	1
Distance to Nearest Well	0 0 0 0 0 1 0 4 6 8 10 2 0 8 12 <u>16</u> 20 3 0 12 18 24 30 4 0 16 24 32 35 5 0 20 30 35 40			Pop ~ 675	6
Population Served		x1	16	well ~ 1/2 mile	1
Total Targets Score			25		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			16200		
7 Divide line 6 by 57,330 and multiply by 100			$S_{gw} =$	28.26	

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)					
(This score is based on the expected acquisition of information from the Listing Site Inspection.)					
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	0 (45)	x1	45	assumed release	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description:	
Depth to Aquifer of concern	0 1 2 3	x2		ft.	
Net Precipitation	0 1 2 3	x1		Precip Evap	
Permeability of the Unsaturated Zone	0 1 2 3	x1		cm/sec	
Physical State	0 1 2 3	x1			
Total Route Char. Score					
3 Containment	0 1 2 3	x1			
4 Waste Characteristics				cadmium,	
Persistence	0 1 2 (3)			xylene, toluene,	
Toxicity	0 1 2 3 4 3 6 9 12 15 6 9 12 15 18 (3) 9 12 15 18	x1	18	lead assumed	3.8
Haz. Waste Quantity	0 1 2 3 4 5 (6) 7 8	x1	6	2540 drums	3
Total Waste Char. Score			24		
5 Targets					
Groundwater Use	0 1 2 (3)	x3	9	drinking water	1-
Distance to Nearest Well	0 1 2 (3) 4 0 0 0 0 0 0 4 6 8 10 0 8 12 (16) 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40			pop ~ 675	6
Population Served	(2) 3 4 5	x1	16	well ~ 1/2 mile	1
Total Targets Score			25		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			27000		
7 Divide line 6 by 57,330 and multiply by 100			S _{gw} = 47.10		

SURFACE WATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	0 45	x1	0	none documented	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics					
	Intergrading Terrain Facility 0 0 0 0 3 0 1 1 2 3 Slope 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3	x1	0	Facil ≤ 3%	6
				Interv 1.3 %	6
1-yr. 24 hr Rainfall	0 1 2 3	x1	2	2.45 in.	4
Distance to Nearest Surface Water	0 1 2 3	x2	2	Fox River	6
Physical State	0 1 2 3	x1	3	liquid	3
Total Route Char. Score			7		
3 Containment	0 1 2 3	x1	0	Unknown	
4 Waste Characteristics					
Persistence	0 1 2 3				
Toxicity	0 1 2 3	x1	0	Unknown	
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1	0	Unknown	
Total Waste Char. Score			0		
5 Targets					
Surface Water Use	0 1 2 3	x3	6	Fox River Irrigation	
Dist. to Sensitive Environment	0 1 2 3	x2	0	none	6,7
	Distance to Water Intake Downstream Population Served 0 0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x1		no intakes	
Total Targets Score			6		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 64,350 and multiply by 100			S _{sw} = 0		

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #																																																																													
[1] Observed Release	0 (45)	x1	45																																																																															
If Observed Release scores 45 proceed to line [4] If Observed Release scores 0 proceed to line [2]																																																																																		
[2] Route Characteristics	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; text-align: center;">Intervening Terrain</td> </tr> <tr> <td></td> <td style="text-align: center;"> <table style="width: 100%; border-collapse: collapse;"> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>3</td></tr> <tr><td>0</td><td>1</td><td>1</td><td>2</td><td>3</td></tr> <tr><td>0</td><td>1</td><td>2</td><td>2</td><td>3</td></tr> <tr><td>0</td><td>2</td><td>2</td><td>3</td><td>3</td></tr> <tr><td>0</td><td>2</td><td>3</td><td>3</td><td>3</td></tr> </table> </td> </tr> <tr> <td>Facility</td> <td style="text-align: center;">x1</td> <td></td> <td></td> <td>Facil %</td> <td></td> </tr> <tr> <td>Slope</td> <td></td> <td></td> <td></td> <td>Interv %</td> <td></td> </tr> <tr> <td>1-yr. 24 hr Rainfall</td> <td style="text-align: center;">0 1 2 3</td> <td>x1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Distance to Nearest Surface Water</td> <td style="text-align: center;">0 1 2 3</td> <td>x2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Physical State</td> <td style="text-align: center;">0 1 2 3</td> <td>x1</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3" style="text-align: right;">Total Route Char. Score</td> <td></td> <td></td> <td></td> </tr> </table>				Intervening Terrain		<table style="width: 100%; border-collapse: collapse;"> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>3</td></tr> <tr><td>0</td><td>1</td><td>1</td><td>2</td><td>3</td></tr> <tr><td>0</td><td>1</td><td>2</td><td>2</td><td>3</td></tr> <tr><td>0</td><td>2</td><td>2</td><td>3</td><td>3</td></tr> <tr><td>0</td><td>2</td><td>3</td><td>3</td><td>3</td></tr> </table>	0	0	0	0	3	0	1	1	2	3	0	1	2	2	3	0	2	2	3	3	0	2	3	3	3	Facility	x1			Facil %		Slope				Interv %		1-yr. 24 hr Rainfall	0 1 2 3	x1				Distance to Nearest Surface Water	0 1 2 3	x2				Physical State	0 1 2 3	x1				Total Route Char. Score																			
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Population Served		x1	0	no intakes																																																																														
Total Targets Score			6																																																																															
[6] E line [1] is 45, multiply [1] x [4] x [5] E line [1] is 0, multiply [2] x [3] x [4] x [5]			6480																																																																															
[7] Divide line [6] by 64,350 and multiply by 100			S_{sw} = 10.07																																																																															

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	0 <u>45</u>	x1	45		
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics					
Intervening Terrain	0 0 0 0 3	x1		Facil %	
Facility	0 1 1 2 3			Interv %	
Slope	0 1 2 2 3				
	0 2 2 3 3				
	0 2 3 3 3				
1-yr. 24 hr Rainfall	0 1 2 3	x1		ir.	
Distance to Nearest Surface Water	0 1 2 3	x2			
Physical State	0 1 2 3	x1			
Total Route Char. Score					
3 Containment	0 1 2 3	x1			
4 Waste Characteristics					
Persistence	0 1 2 <u>3</u>			heavy metals, xylene	
Toxicity	0 0 0 0 0 1 3 6 9 12 2 6 9 12 15 <u>3</u> 9 12 15 <u>18</u>	x1	18	toluene assumed	3, B
Haz. Waste Quantity	0 1 2 3 4 5 <u>6</u> 7 8	x1	6	2540 drums	3
Total Waste Char. Score			24		
5 Targets					
Surface Water Use	0 1 <u>2</u> 3	x3	6	For River recreation	
Dist. to Sensitive Environment	<u>0</u> 1 2 3	x2	0	none	6, 7
Distance to Water Intake Downstream	0 0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x1	0	no intakes	
Population Served					
Total Targets Score			6		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			6480		
7 Divide line 6 by 64,350 and multiply by 100			$S_{sw} = 10.07$		

not scored

AIR ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	0 45	x1			
If line 1 is 0, the $S_a = 0$. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
Total Waste Char. Score					
3 Targets					
Population within 4-mile Radius		Dist to Population			
Pop.		0 0 0 0			
		9 12 15 18			
		12 15 18 21			
		15 18 21 24			
		18 21 24 27			
		21 24 27 30			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
Total Targets Score					
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100					
			$S_a =$		

There is insufficient information to score this route at this time.

not scored

AIR ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)					
(This score is based on the expected acquisition of information from the Screening Site Inspection.)					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	0 45	x1			
If line 1 is 0, the $S_a = 0$. Enter on line 5					
If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
Total Waste Char. Score					
3 Targets	Dist to Population				
	0 0 0 0				
Population within 4-mile Radius	9 12 15 18				
Pop.	12 15 18 21				
	15 18 21 24				
	18 21 24 27		x1		
	21 24 27 30				
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
Total Targets Score					
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100					
			$S_a =$		

There is insufficient information to score route at this time.

not scored

AIR ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)					
(This score is based on the expected acquisition of information from the Listing Site Inspection.)					
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	0 45	x1			
If line 1 is 0, the $S_a = 0$. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatibility	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
Total Waste Char. Score					
3 Targets	Dist to Population				
Population within 4-mile Radius	Pop.	0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 30	x1		
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
Total Targets Score					
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100			$S_a =$		

There is insufficient information to score air route at this time.

not scored

FIRE AND EXPLOSION

PRELIMINARY HRS SCORE WORKSHEET						
(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)						
Rating Factor	Assigned Value (Circle One)		Multi-plier	Score	Description	Ref. #
1 Containment	0	3	x1			
2 Waste Characteristics						
Direct Evidence	0	3	x1			
Ignitability	0	1 2 3	x1			
Reactivity	0	1 2 3	x1			
Incompatibility	0	1 2 3	x1			
Haz. Waste Quantity	0	1 2 3 4 5 6 7 8	x1			
Total Waste Char. Score						
3 Targets						
Dist. to Nearest Pop.	0	1 2 3 4 5	x1			
Dist. to Nearest Bldg.	0	1 2 3	x1			
Dist. to Sensitive Env.	0	1 2 3	x1			
Land Use	0	1 2 3	x1			
Pop. Within 2 miles	0	1 2 3 4 5	x1			
Bldgs. Within 2 miles	0	1 2 3 4 5	x1			
Total Targets Score						
4 Multiply 1 x 2 x 3						
5 Divide line 4 by 1,440 and multiply by 100				S _{FE} =		

Fire and Explosion not scored based on conversation with the Deputy Chief of the Batavia Fire Dept.

not scored

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)						
(This score is based on the expected acquisition of information from the Screening Site Inspection.)						
Rating Factor	Assigned Value (Circle One)		Multi-plier	Score	Description	Ref. #
1 Containment	0	3	x1			
2 Waste Characteristics						
Direct Evidence	0	3	x1			
Ignitability	0	1 2 3	x1			
Reactivity	0	1 2 3	x1			
Incompatability	0	1 2 3	x1			
Haz. Waste Quantity	0	1 2 3 4 5 6 7 8	x1			
Total Waste Char. Score						
3 Targets						
Dist. to Nearest Pop.	0	1 2 3 4 5	x1			
Dist. to Nearest Bldg.	0	1 2 3	x1			
Dist. to Sensitive Env.	0	1 2 3	x1			
Land Use	0	1 2 3	x1			
Pop. Within 2 miles	0	1 2 3 4 5	x1			
Bldgs. Within 2 miles	0	1 2 3 4 5	x1			
Total Targets Score						
4 Multiply 1 x 2 x 3						
5 Divide line 4 by 1,440 and multiply by 100				S _{RE} =		

Fire and Explosion not scored based on conversation with the Deputy Chief of the Batavia Fire Dept.

not scored

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)						
(This score is based on the expected acquisition of information from the Listing Site Inspection.)						
Rating Factor	Assigned Value (Circle One)		Multi-plier	Score	Description	Ref. #
1 Containment	0	3	x1			
2 Waste Characteristics						
Direct Evidence	0	3	x1			
Ignitability	0	1 2 3	x1			
Reactivity	0	1 2 3	x1			
Incompatability	0	1 2 3	x1			
Haz. Waste Quantity	0	1 2 3 4 5 6 7 8	x1			
Total Waste Char. Score						
3 Targets						
Dist. to Nearest Pop.	0	1 2 3 4 5	x1			
Dist. to Nearest Bldg.	0	1 2 3	x1			
Dist. to Sensitive Env.	0	1 2 3	x1			
Land Use	0	1 2 3	x1			
Pop. Within 2 miles	0	1 2 3 4 5	x1			
Bldgs. Within 2 miles	0	1 2 3 4 5	x1			
Total Targets Score						
4 Multiply 1 x 2 x 3						
5 Divide line 4 by 1,440 and multiply by 100				S _{FE} =		

Fire and Explosion not scored based on conversation with the Deputy Chief of the Batavia Fire Dept.

DIRECT CONTACT

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	<u>0</u> 45	x1	0	none documented	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	<u>0</u> 1 2 3	x1	0	unknown	
3 Containment	0 <u>15</u>	x1	15	drums	3
4 Waste Characteristics					
Toxicity	<u>0</u> 1 2 3	x5	0	unknown	
5 Targets					
Pop. Within 1 mile	0 1 2 3 <u>4</u> 5	x4	16	~3447 people	6
Dist. to Crit. Habitat	<u>0</u> 1 2 3	x4	0	none	7
Total Targets Score			16		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5					
7 Divide line 6 by 21,600 and multiply by 100				S _{DC} = 0	

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)					
(This score is based on the expected acquisition of information from the Screening Site Inspection)					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
[1] Observed Incident	0 45	x1	0		
If line [1] is 45, proceed to line [4] If line [1] is 0, proceed to line [2]					
[2] Accessibility	0 1 2 3	x1	3	assured no fence or guard	
[3] Containment	0 15	x1	15	drums	3
[4] Waste Characteristics					
Toxicity	0 1 2 3	x5	15	heavy metals (Pb, Cd)	8
[5] Targets					
Pop. Within 1 mile	0 1 2 3 4 5	x4	16	~ 3447 people	6
Dist. to Crit. Habitat	0 1 2 3	x4	0	none	7
Total Targets Score			16		
[6] If line [1] is 45, multiply [1] x [4] x [5] If line [1] is 0, multiply [2] x [3] x [4] x [5]			10800		
[7] Divide line [6] by 21,600 and multiply by 100			S _{DC} = 50.00		

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Incident	0 <u>45</u>	x1	45	assume incident	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 3	x1	-		
3 Containment	0 15	x1			
4 Waste Characteristics					
Toxicity	0 1 2 <u>3</u>	x5	15	heavy metals assumed	8
5 Targets					
Pop. Within 1 mile	0 1 2 3 <u>4</u> 5	x4	16	~3447 people	6
Dist. to Crit. Habitat	<u>0</u> 1 2 3	x4	0	none	7
Total Targets Score			16		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			10800		
7 Divide line 6 by 21,600 and multiply by 100			S _{DC} = 50.00		

**Hazard Ranking System 2:
Factor Value Worksheets**

HRS 2- FACTOR VALUE

<u>Factor</u>	<u>Factor Value</u>	<u>Observed Human Exposure (X)</u>
Waste Characteristics	<u>30.0</u> (100)	
Air Pathway	<u>7.5</u> (100)	
Groundwater Pathway	<u>29.1</u> (100)	none documented
Surface Water Pathway	<u>12.0</u> (100)	
On-site Pathway	<u>70.0</u> (100)	Y
TOTAL HRS 2 FACTOR VALUE	<u>146.6</u> (500)	

WASTE CHARACTERISTICS

	<u>Yes</u> (x)	<u>Reference</u>	<u>Factor</u> <u>Value</u>
1. (a) Are CONTAINERS open, unsealed, or non-intact?	<u>UNK</u>	_____	<u>0</u> (5)
(b) Is there evidence of contaminant migration away from the containers?	<u>NO</u>	_____	<u>0</u> (5)
(c) Is the source(s) unlined or does it have unsound diking?	<u>UNK</u>	_____	<u>0</u> (5)
2. (a) Does the LANDFILL have exposed waste, <u>or</u> is the landfill uncovered, <u>or</u> is the landfill covered with contaminated soil, non-intact cover or cover less than 1 inch?	<u>NA</u>	_____	_____ (5)
(b) Is there evidence of contaminant migration away from the source?	_____	_____	_____ (5)
(c) Is there an absence of a liner, a run-on or runoff management system or leachate collection and removal system?	_____	_____	_____ (5)
3. (a) Is the SURFACE IMPOUNDMENT wet and non-enclosed?	<u>NA</u>	_____	_____ (5)
(b) Is there evidence of contaminant migration away from the source?	_____	_____	_____ (5)
(c) Is there no liner or diking?	_____	_____	_____ (5)
4. (a) Is the PILE uncovered, or is the pile covered with contaminated soil, non-intact cover or cover less than 1 inch?	<u>NA</u>	_____	_____ (5)
(b) Is there an absence of a functioning run-on or runoff management system or leachate collection system?	_____	_____	_____ (5)
(c) Is there an absence of a liner?	_____	_____	_____ (5)
5. Only answer <u>highest</u> factor value for the following questions:			
(a) Is constituent data available for waste?	<u>UNK</u>	_____	<u>0</u> (10)
(b) Is waste quantity as deposited information available?	<u>UNK</u>	_____	<u>0</u> (8)
(c) Is disposable volume known?	<u>UNK</u>	_____	<u>0</u> (4)
(d) Is disposable area known?	<u>UNK</u>	_____	<u>0</u> (2)

...Continued

WASTE CHARACTERISTICS (Continued)

6. Complete the table for all sources at the site. Calculate Waste Quantity score and record summation to a maximum value of 30.

Source	Surface Area (ft ²)	+	Divisor	=	Waste Quantity Score
Pile		+	85	=	
Drums/Non-drum Container	12470	+	233	=	53.5
Surface Impoundment		+	375	=	
Land Treatment		+	27,000	=	
Landfill		+	85,666	=	
Contaminated Soil		+	1,125,000	=	

assume 2 1/2' dia. drum

Surface Area:
 $(2540 \text{ drums}) (\pi/4) (2.5')^2$
 $= 12470 \text{ ft}^2$

Total 53.5 30 (30max)

Total Waste Characteristics 30 (100)

AIR PATHWAY

- | | <u>Yes</u>
(x) | <u>Reference</u> | <u>Factor</u>
<u>Value</u> |
|------------------------------------------------------------------------------------------------------------|-------------------|------------------|-------------------------------|
| 1. Only assign factor value for (a) or (b), choosing the <u>higher</u> value: | | | |
| (a) Is there a residence or regularly occupied building between 0 to 1/8 mile from a potential source(s)? | <u>NO</u> | <u> </u> | <u>0</u> (25) |
| (b) Is there a residence or regularly occupied building between 1/8 to 2 miles from a potential source(s)? | <u>X</u> | <u>6</u> | <u>5</u> (5) |
| 2. Complete (a) and (b) and assign the <u>higher</u> factor value: | | | |
| (a) If documented contamination of air, answer yes and assign factor value of 75. | <u>NO</u> | <u> </u> | <u>0</u> (75) |
| (b) Calculate potential population and assign factor value as given below: | <u>X</u> | <u>6</u> | |

Distance (mile)	Population	x	Distance Weighting Factor	=	Subtotal
Onsite	0	x	1.682	=	0
0-1/4	224.5	x	0.323	=	72.5
1/4-1/2	350.3	x	0.056	=	19.6
1/2-1	2872.4	x	0.017	=	48.8
1-2	12203.6	x	0.005	=	61.0
2-3	10230.6	x	0.003	=	30.7
3-4	7549.8	x	0.002	=	15.1

$$\text{Total } \underline{247.7} \times \frac{1}{100} = \underline{2.5} \text{ (75max)}$$

Total Air Pathway Value 7.5 (100)

GROUNDWATER PATHWAY

- | | <u>Yes</u>
(x) | <u>Reference</u> | <u>Factor</u>
<u>Value</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|-------------------------------|
| 1. Is the depth to the aquifer of concern less than 800 feet? | <u>X</u> | <u>1</u> | <u>5</u> (5) |
| 2. (a) Within 2 miles of the site, is the geologic material between the waste and the aquifer of concern composed predominantly of sands, gravels, sandstone, limestone or dolomite? | <u>X</u> | <u>1</u> | <u>5</u> (5) |
| (b) Within 2 miles of the site, is there evidence of a low hydraulic conductivity layer (10^{-6} to 10^{-9}) between the waste and the aquifer of concern? | <u>X</u> | <u>1</u> | <u>-15</u> (-15) |
| 3. Only assign factor value for (a) or (b), choosing the <u>higher</u> value: | | | |
| (a) is there a drinking water well(s) in the aquifer of concern or a more shallow unit 0 to 1/2 mile from the source(s)? | <u>X</u> | <u>1,6</u> | <u>20</u> (20) |
| (b) Is there a drinking water well(s) in the aquifer of concern or a more shallow unit 1/2 to 2 miles from the source(s)? | <u> </u> | <u> </u> | <u> </u> (5) |
| 4. Is the aquifer of concern a karst unit? | <u>unk</u> | <u> </u> | <u>0</u> (10) |
| 5. Is the aquifer of concern a sole source aquifer? | <u>NO</u> | <u> </u> | <u>0</u> (5) |
| 6. Complete (a) and (b), and assign the <u>higher</u> factor value: | | | |
| (a) If documented contamination of drinking water wells with TCL/TAL compounds, answer yes and assign a factor value of 50. | <u>NO</u> | <u> </u> | <u>0</u> (50) |
| (b) Calculate potential population and assign factor value as given below: | <u>X</u> | <u>6</u> | |

Distance (mile)	Population	x	Distance Weighting Factor	=	Subtotal
0-1/4	224.5	x	0.25	=	56.13
1/4-1/2	350.3	x	0.16	=	56.05
1/2-1	2872.4	x	0.08	=	229.79
1-2	12203.6	x	0.05	=	610.18
2-3	10230.6	x	0.03	=	306.92
3-4	7549.8	x	0.02	=	151.00

Total: $\frac{1410.07}{100} \times 1 = 14.1$ (50=mx)

100

TOTAL GROUNDWATER PATHWAY VALUE 29.1 (100)

SURFACE WATER PATHWAY

- | | <u>Yes</u>
(x) | <u>Reference</u> | <u>Factor</u>
<u>Value</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|-------------------------------|
| 1. Does site lie within a 100-year or less floodplain? | <u>NO</u> | _____ | <u>0</u> (5) |
| 2. Is there contamination attributable to the site at a drinking water intake? | <u>NO</u> | _____ | <u>0</u> (20) |
| 3. Is this a sole-source surface water supply? | <u>NO</u> | _____ | <u>0</u> (10) |
| 4. Is a fishery (production) contaminated as a result of the site, or is a fishery potentially impacted within 15 miles as a result of the site? | <u>UNK</u> | _____ | <u>0</u> (5) |
| 5. Is a recreation area contaminated as a result of the site, or is a recreation area potentially impacted within 15 miles as a result of the site? | <u>X</u> | <u>6</u> | <u>5</u> (5) |
| 6. Is a sensitive environment contaminated as a result of the site, or is a sensitive environment potentially impacted within 15 miles as a result of the site? | <u>X</u> | <u>6</u> | <u>5</u> (5) |
| 7. Complete (a) and (b), and assign the <u>higher</u> factor value: | | | |
| (a) If there is documented contamination of a surface water intake with TCL compounds answer yes and assign a factor value of 50. | <u>NO</u> | _____ | <u>0</u> (50) |
| (b) Calculate potential population and assign a factor value as given below: | _____ | _____ | |

Intake	Population	x	Dilution Weighting Factor	=	Subtotal
01		x		=	
02		x		=	
03		x		=	
		x		=	
		x		=	
		x		=	

no intakes

* Use table on following page.

Total _____ x 1 = 0 (50max)
100

TOTAL SURFACE WATER PATHWAY VALUE 10 (100)

SURFACE WATER PATHWAY

TABLE
DILUTION WEIGHTING FACTORS

Surface Characteristic	Average Annual Flow in Cubic Feet per Second (CFS)	Assigned Value
Minimum perennial stream	Less than 5 cfs	2.5
Small to moderate stream	5 to 50 cfs	0.25
Moderate to large stream	Greater than 50 to 500 cfs	0.025
Large streams to rivers	Greater than 500 to 10,000 cfs	0.0013
Major rivers	Greater than 10,000 cfs	0.0003
Ocean or the Great Lakes	Not applicable	0.0003
Mixing zone of quiet flowing rivers	Greater than 50 cfs	0.125
Lakes, reservoirs	Add and average CFS of tributaries flowing into lake/reservoir.	Assign value to calculated CFS figure using above factors.

ON-SITE PATHWAY

- | | <u>Yes</u>
(x) | <u>Reference</u> | <u>Factor</u>
<u>Value</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|-------------------------------|
| 1. Is the site located in an area where people live or go to school within 1 mile of the source(s)?
*If answer <u>NO</u> to Question 1, do not proceed with the remaining questions. | <u>X</u> | <u>6</u> | <u>10</u> (10) |
| 2. Is there known contamination from the site on residential or school property? | <u>NO</u> | <u> </u> | <u>0</u> (15) |
| 3. Is site public use land or widely used land without barriers? | <u>UNK</u> | <u> </u> | <u>0</u> (10) |
| 4. Complete (a), (b) and (c), and assign the <u>highest</u> factor value:
Which of the following are adjacent to site/source(s) or contaminated from the site? | | | |
| (a) Schools, day-care | <u>NO</u> | <u> </u> | <u>0</u> (15) |
| (b) Parks, playgrounds, residences | <u>X</u> | <u>6</u> | <u>10</u> (10) |
| (c) National park, federal endangered species, other public-use lands. | <u> </u> | <u> </u> | <u> </u> (5) |
| 5. Calculate population within 1 mile of the site, and assign factor value as given below: | | | |

Distance (mile)	Population	x	Distance Weighting Factor	=	Subtotal
0-1/4	224.5	x	0.05	=	11.23
1/4-1/2	350.3	x	0.025	=	8.78
1/2-1	2872.4	x	0.0125	=	35.91

Total 55.92 50 (50max)

TOTAL ON-SITE PATHWAY VALUE 70 (100)

APPENDIX

Copies of the following addenda have been supplied to the U.S. Environmental Protection Agency and the appropriate state agencies. Refer to these addenda when reviewing this work plan.

Addendum	Title
A	Routine Analytical Services Contract Required Detection and Quantitation Limits
B	Central Regional Laboratory Detection Limits
C	Special Analytical Services Detection Limits Drinking Water Samples
D	Special Analytical Services Detection Limits High Concentration Samples

REFERENCES

REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
1	Illinois Department of Public Health, Well Construction Reports. Kane County Well Logs. (Selected logs T. 39N. R. 8E. secs. 11, 13, 15). 6 logs.
2a	Strand, Mr., July 20, 1988 telephone conversation, Deputy Chief of the Batavia City Fire Department, Batavia, Illinois (312) 879-1404 contacted by Bill Schaefer
2b	Kreuger, Tim, July 22 telephone conversation, IEPA, Springfield, IL. (217) 782-0610, contacted by Bill Schaefer
3	U.S. Environmental Protection Agency, Potential Hazardous Waste Site Preliminary Assessment for Comerco Inc. Olympic Stain Div, USEPA ID# ILD085224186, prepared by Kathy Freeman of the USEPA, March 7, 1983.
4	U.S. Dept. of Commerce, Government Printing Office, 1963. Rainfall Frequency Atlas. Technical Paper No. 40, Washington, D.C., pp. 43, 68.

REFERENCE DOCUMENTATION SHEET

Ref. #	DESCRIPTION OF REFERENCE
5	<p>Sax, I.N., 1984 <u>Dangerous Properties of Industrial Materials</u>, 6th ed., New York, Van Nostrand Reinhold Company, Inc.</p>
6	<p>U.S.G.S. Topographic Maps: ① 1964 Aurora North, ② Geneva, Illinois Quadrangles, 7.5 Minute Series: 1:24000 (Both photorevised in 1972 and 1980)</p>
7	<p><u>Endangered Species</u>. U.S. Dept of the Interior. Fish and Wildlife Service.</p>
8	<p>Paul, Swaraj. <u>Surface Coatings, Science and Technology</u>, John Wiley & Sons, New York, 1985.</p>

REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
9	<p>RCRA Inspection Report - Interim Status Standards. Prepared by Brad Benning of the Illinois EPA, 12-81. EPA ID# ILD085224186</p>
10	<p>Woller, Dorothy and Sanderson, Ellis. Public Groundwater Supplies in Kane County. Bulletin 60-22, Illinois State Water Survey, Urbana, Illinois, 1978.</p>
11	<p>Illinois State File Information. This includes Notification of Hazardous Waste Site, NPDES application and authorization.</p>

SOURCES AND DATES OF INFORMATION COLLECTION

<u>SOURCE</u>	<u>DATE</u>
1) State Hazardous/Solid Waste Files	2-88
2) State Water Files	2-88, 7-22-88
3) State Air Files	2-88
4) State Department of Health	2-88
5) State Geological Survey	
6) State Department of Natural Resources	
7) State Fire Marshall	
8) County Department of Health	
9) County Engineer	
10) County Clerk/Recorder of Deeds	
11) City Department of Health	
12) City Engineer	
13) City Fire Department/Fire Marshall	7-20-88
14) City Water/Sever Department	
15) U.S. Soil Conservation Service	
16) Others	
STATE CONTACT(S): <u>Tom Crause</u>	<u>(217) 782-9848</u>
(name)	(phone number)
<u>Kathy Freeman</u>	<u>(312) 886-6154</u>
(name)	(phone number)